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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/603,416	06/24/2003	Thomas A. Maufer	NVIDA P000802	3444

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PATTERSON & SHERIDAN L.L.P. NJ Office
3040 Oak Post Road
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Houston, TX 77056-6582

EXAMINER

JACKSON, JENISE E

ART UNIT	PAPER NUMBER
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2439

MAIL DATE	DELIVERY MODE
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02/19/2009

PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary

Application No.

10/603,416

Applicant(s)

MAUFER ET AL.

Examiner

JENISE E. JACKSON

Art Unit

2439

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 20 November 2008.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-9,14,19,27,29,31,36-41 and 52 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-9,14,19,27,29,31,36-41 and 52 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☐ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date _____.
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date _____.
- 5) ☐ Notice of Informal Patent Application
- 6) ☐ Other: _____.

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

2. Claims 1-9, 14, 19, 27, 29, 31, 36-41, 52 are rejected under 35 U.S.C. 102(e) as being anticipated by Goldberg et al(2004/0013112).
3. As per claim 1, Goldberg discloses a method for network protocol filtering of a packet using an address resolution table that is cross-linked with a state table indexed with an address resolution table index (ART index)[0008-0009, 0062, 0101, 0124], the packet having a Media Access Control (MAC) destination address, the method comprising: determining a packet type for the packet; obtaining packet information for the packet including the MAC destination address; determining that the MAC destination address is included in the address resolution table; obtaining the ART index associated with the MAC destination based on the address resolution table wherein the ART index obtained is an index into the state table for locating an entry in the state table; and storing the obtained ART index and the packet information in a data structure associated with the state table[0048, 0062-0063, 0066, 0100, col. 3 table 3].
4. As per claim 2, Goldberg et al. discloses determining whether the packet is for a new connection and responsive to the packet not being for the new connection, the determining whether the packet information is in the address resolution table [0009-0010, 0048].

5. As per claim 3, Goldberg discloses wherein the packet type is a Transmission Control Protocol type [0055].
6. As per claim 4, Goldberg discloses wherein the packet type is a User Datagram Protocol type[0055].
7. As per claims 5, 36, Goldberg discloses wherein the packet information is a five-tuple including source and destination addresses, source and destination ports, and a packet type identifier [0055].
8. As per claims 6, 37, Goldberg discloses wherein the packet type is a Generic Routing Encapsulation type[0055, 0130].
9. As per claims 7, 38, Goldberg discloses wherein the packet information is a five- tuple including source and destination addresses, an apportioned Generic Routing Encapsulation identifier, and a packet type identifier [0055, 0085].
10. As per claims 8, 39, Goldberg discloses wherein the packet type is an Internet Protocol Security type[0055-0056].
11. As per claims 9, 40, Goldberg discloses wherein the packet information is a five- tuple including source and destination addresses, an apportioned security parameter string; and a packet type identifier [0009, 0055].
12. As per claims 14, 31, Goldberg discloses a method for inbound network address translation packet filtering using an address resolution table that is cross-linked with a state table indexed with an address resolution table index (ART index), the packet having a Media Access Control (MAC) destination address[0100, 0101], the method comprising: a method for inbound network address translation packet filtering[see col. 8 table 3], comprising: obtaining packet

information from the packet including the MAC destination address; determining that the MAC destination address is included in the address resolution table; obtaining the ART index associated with the MAC destination address based on the address resolution table, wherein the ART index obtained is an index into the state table for locating an entry in the state table; and storing the obtained ART index and the product information in the data structure associated with the state table[0009, 0055, 0062, 0066, col. 7-8 table 2-3].

13. As per claim 41, Goldberg discloses checking validity of layers of the Packet; checking Internet Protocol options for the packet; and determining whether the packet is a fragment [0055-0056].

14. As per claim 27, 52, wherein the data structure is for a plurality of canonical frame headers[0061].

15. As per claim 29 Goldberg discloses wherein the second table is a connection table[0048].

Response to amendment

16. The Applicant has responded on 11/20/08 to office action dated 8/20/08. The Examiner previously rejected claims 1-66 in office action mailed 8/20/08. The Applicant has cancelled claims, 10-13, 15-18, 20-26, 28, 30, 32-35, 42-51, 53-66. The Applicant has amended claims 1, 14, and 31.

17. The Applicant argues that Goldberg does not disclose three tables that are cross-linked. The Examiner disagrees with the Applicant. Goldberg discloses a session is identified by

comparing the received packet's socket to the sockets associated with previously opened sessions stored in the session database. To speed the recognition of a session, a hash table is used which stores hash pointers to session records in the session database and permits rapid lookup of the session corresponding to a received socket. Goldberg discloses new sessions are stored in the session database and a hash on the socket is calculated, either by the dynamic filter or the CPU. A hash pointer is stored at a location in the hash table (FIG. 2) pointed to by the hash result. If more than one session is stored at that location, the session is added to a linked list[0072]. Goldberg discloses upon receipt of a packet, the socket is input to the hash calculator which functions to generate and output a hash result. The hash result is used as the index to the hash table that comprises a plurality of entries each containing a hash pointer. The hash pointer points to a linked list of sessions in the session database. Each session record in the session database comprises previous and next pointers thus implementing a doubly linked list[0073].

Final Action

18. THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event,

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however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to JENISE E. JACKSON whose telephone number is (571)272-3791. The examiner can normally be reached on Increased Flex time, but generally in the office M-Fri(8-4:30)..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kambiz Zand can be reached on (571) 272-3811. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

February 16, 2009

/J. E. J./

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/Kambiz Zand/

Supervisory Patent Examiner, Art Unit 2434